

## PRODUCTION OF METHACROLEIN

**Publication number:** JP9323950

**Publication date:** 1997-12-16

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**Applicant:** ASAHI CHEMICAL IND

**Classification:**

**- international:** *B01J23/88; C07B61/00; C07C45/35; C07C45/39; C07C47/22; B01J23/76; C07B61/00; C07C45/00; C07C47/20; (IPC1-7): C07B61/00; C07C47/22; B01J23/88; C07C45/35; C07C45/39*

**- european:**

**Application number:** JP19960142458 19960605

**Priority number(s):** JP19960142458 19960605

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### Abstract of JP9323950

**PROBLEM TO BE SOLVED:** To provide a process for producing methacrolein in high yield by the vapor-phase catalytic oxidization of at least one kind of compound selected from isobutylene and/or t-butyl alcohol with a gas containing molecular oxygen using a fixed bed multitubular reactor.

**SOLUTION:** The catalyst layer in each reaction tube is divided into  $\geq 3$  layers in axial direction to form plural reaction zones. The activity per unit volume of the catalyst packed to the 1st layer at the inlet part of the raw material gas is set to be higher than the activity of the catalyst packed to the 2nd layer. The activity per unit volume of the catalyst packed to the 3rd layer and thereafter is made to be higher than the activity of the 2nd layer catalyst.

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